In the Abstract

Please replace the following amended Abstract:

Abstract of the Disclosure

~~The invention relates to a method for producing precision investment-cast NE metal alloy members, especially for use in power unit technology. The inventive method is characterized by using a rotation casting method, whereby the outer shell of the casting molds (22) to be produced are fed via an inert pouring spout (14) which is fluidically optimized vis-à-vis the used alloys. These casting molds are likewise fluidically optimized at the sprue positions (19) and are arranged on a rotatably mounted casting device (11) in a manner as to be spatially adjustable. The casting molds can be inductively (30) heated during the casting process for the purpose of temperature adjustment. The components of the device are mounted in such a manner as to allow for a completely homogeneous filling of the casting molds by virtue of the Coriolis forces of the centrifugal forces to which the melt is subjected so that the cast metal is free from inclusions.~~ A process for producing a dimensionally accurate component from a nonferrous metal alloy includes the steps of: providing a casting mold corresponding to an external shape of the component and associated with an outlet opening, wherein the casting mold includes at least one heated mold shell; providing a heated, rotatably mounted runner device for receiving a melt of the nonferrous metal alloy; determining a three-dimensional setting angle for the casting mold with respect to the outlet opening based on acceleration forces on the melt, wherein the acceleration forces include centrifugal forces applied to the melt and Coriolis forces of the centrifugal forces; disposing the casting mold at the three-dimensional setting angle with respect to the outlet opening; and feeding a melt into the mold through the outlet opening using the runner device so as to completely fill the casting mold.